# Performance Characteristics

Flow (L / min) for liquid @ 20 °C and 1 cp 10<sup>...</sup>module

0.45 µm

0.65 µm

0.0 Differential Pressure (psi)

Validated retention to spoilage organisms

Inert materials of construction

Easily integrity tested in-situ

High filtration area

75

50

25

Differential Pressure (mbar)

Integral depth prefiltration layer

Features

100

BEVPOR PH beer filters protect the unique characteristics of beer by removing yeast and other spoilage organisms to ensure microbial stability during cold stabilization.

The inert and highly asymmetric PES membrane provides validated microbial retention to typical spoilage organisms, whilst protecting the beer's organoleptic qualities to preserve a fresh taste and a long shelf-life once packaged.

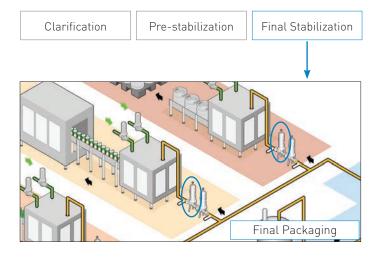
The incorporation of an active prefilter layer, combined with an increased filtration area provides high beer flow rates, greater resistance to blockage and maximized service lifetime.

BEVPOR PH filters have been designed to provide the optimum solution to beer stabilization by providing increased process control with maximized operational efficiency.

## **Benefits**

- Ensures effective microbial stabilization of beer
- Preserves the organoleptic qualities of the beer
- Assured filtration performance
- Increased throughput to blockage
- Maximized operational efficiency

## Filtration Stage





**BEVPOR PH** 

**Brewing** 

Filter Cartridges



-Darker hunter



domnick





## **Specifications**

### Materials of Construction

Filtration Membrane:	Polyethersulphone
Prefilter Layer:	Polyester
Upstream Support:	Polyester
Downstream Support:	Polyester
Inner Support Core:	Polypropylene
Outer Protection Cage:	Polypropylene
End Caps:	Nylon
End Cap Insert:	316L Stainless Steel
O-rings:	Silicone / EPDM

### Food Contact Compliance



Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

### **Recommended Operating Conditions**

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature		Max Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.0	14.5
>100 (steam)	>212 (steam)	0.3	4.0

### Effective Filtration Area (EFA)

10" (250 mm) Up to 0.8 m<sup>2</sup> (8.61 ft<sup>2</sup>)

#### Cleaning and Sterilization

BEVPOR PH cartridges can be repeatedly steam sterilized in-situ or autoclaved at up to 130 °C (266 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals. Please refer to our Clean-in-Place support guide or contact your local Parker representative for more information.

#### **Retention Characteristics**

The retention characteristics of BEVPOR PH filters have been validated by challenges performed with the following organisms.

Organism	LRV whe minimur	n challen n of 107 c	ged with a fu per cm²	
		0.45	0.65	
Saccharomyces ce	revisiae	FR	FR	
Brettanomyces bru	ıxellensis	FR	FR	
Lactobacillus brevi	is	FR	FR	
Acetobacter oeni		FR	FR	
Pseudomonas aero	uginosa	9.1	8.9	
Serratia marcesce	ns	FR	FR	

\*FR - Fully retentive during challenge

When expressed as titre reduction "FR" equates to >10<sup>7</sup> per 10" module.

#### Integrity Test Data

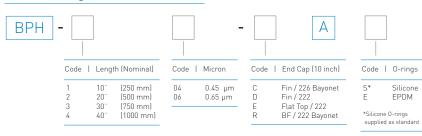
All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity tested to the following limits:

Diffusional Flow	Micron Rating	
Test Parameters	0.45	0.65
Test Pressure (barg)	1.4	1.0
Test Pressure (psig)	20.0	15.0
Max Diffusional		
Flow per 10" (ml /min)	21.0	21.0

#### Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

## Ordering information





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Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.



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